

RAW SEQUENCE LISTING

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Application Serial Number: 10800, 256
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RAW SEQUENCE LISTING

DATE: 10/14/2004

PATENT APPLICATION: US/10/800,256

TIME: 10:30:22

Input Set : A:\Zichria Zakay-Rones et al Seq. List.txt

Output Set: N:\CRF4\10142004\J800256.raw

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3 <110> APPLICANT: Zakay-Rones, Zichria
5 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF CANCER
7 <130> FILE REFERENCE: 85189-5900
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/800,256
C--> 9 <141> CURRENT FILING DATE: 2004-03-11
9 <150> PRIOR APPLICATION NUMBER: IL 145397
10 <151> PRIOR FILING DATE: 2001-09-11
W--> 12 <150> PRIOR APPLICATION NO: IL 145397
13 <151> PRIOR FILING DATE: 2001-09-12
15 <160> NUMBER OF SEQ ID NOS: 35
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 3358
21 <212> TYPE: DNA
22 <213> ORGANISM: Newcastle disease virus
24 <400> SEQUENCE: 1
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27 ttctaccaag aaccacgac ctatgatgct gactatccgg gttgcgctgg cactgagttg      120
29 catctgtccg gcaaaactcca ttgatggcag gcctcttgca gctgcaggaa ttgtggttac      180
31 aggagacaaa gccgtcaaca tatacacctc atcccagaca ggatcaatca tagttaagct      240
33 cctcccgaat ctgcccgaag ataaggaggc atgtgcgaaa gcccccttgg atgcatacaa      300
35 caggacattg accactttgc tcacccccct tgggtgactct atccgtagga tacaagagtc      360
37 tgtgactaca tctggagggg ggagacaggg gcgccttata ggcgccatta ttggcggtgt      420
39 ggctcttggg gttgcaactg ccgcacaaat aacagcggcc gcagctctga tacaagccaa      480
41 acaaaatgct gccaacatcc tccgacttaa agagagcatt gccgcaacca atgaggctgt      540
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45 tgттаатgac caatttaata aaacagctca ggaattagac tgcattcaaaa ttgcacagca      660
47 agttggtgta gagctcaacc tgtacctaac cgaattgact acagtattcg gaccacaaat      720
49 cacttcacct gctttaaaca agctgactat tcaggcactt tacaatctag ctggtggaaa      780
51 tatggattac ttattgacta agttagggtg agggaacaat caactcagct cattaatcgg      840
53 tagcggctta atcaccgcta accctattct atacgactca cagactcaac tcttgggtat      900
55 acaggttaact ctaccttcag tcgggaacct aaataatatg cgtgccacct acttggaac      960
57 cttatccgta agcacaacca ggggatttgc ctccggcactt gtcccaaaag tggtagacac      1020
59 ggtcggttct gtgatagaag aacttgacac ctcatactgt atagaaactg acttagattt      1080
61 atattgtaca agaatagtaa cgttccctat gtcccttggg atttattcct gcttgagcgg      1140
63 caatacgtcg gcctgtatgt actcaaagac cgaaggcgca ctactacac catacatgac      1200
65 tatcaaaggt tcagtcacg ccaactgcaa gatgacaaca tgtagatgtg taaaccccccc      1260
67 gggatatcata tcgcaaaaact atggagaagc cgtgtctcta atagataaac aatcatgcaa      1320
69 tgttttatcc ttaggcggga taactttaag gctcagtggg gaattcgatg taacttatca      1380
71 gaagaatatc tcaataacaag attctcaagt aataataaca ggcaatcttg atatctcaac      1440
73 tgagcttggg aatgtcaaca actcgatcag taatgctttg aataagttag aggaaagcaa      1500
75 cagaaaacta gacaaagtca atgtcaaact gactagcaca tctgctctca ttacctatat      1560
77 cgttttgact atcatatctc ttgttttttg tatacttagc ctgattctag catgctacct      1620

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79 aatgtacaag caaaaggcgc aacaaaaaac cttattatgg cttgggaata atactctaga 1680
81 tcagatgaga gccactacaa aaatgtgaac acagatgagg aacgaagggt tccctaatag 1740
83 taattttgtgt gaaagttctg gtagtctgtc agttcagaga gttaagaaaa aactaccggt 1800
85 tgtagatgac caaaggacga tatacgggta gaacggtaag agaggccgcc cctcaattgc 1860
87 gagccaggct tcacaacctc cgttctaccg cttcaccgac aacagtcctc aatcatggac 1920
89 cgcgccgtta gccaaagttgc gttagagaat gatgaaagag aggcaaaaaa tacatggcgc 1980
91 ttgatattcc ggattgcaat cttattctta acagtagtga ccttggctat atctgtagcc 2040
93 tcccttttat atagcatggg ggctagcaca cctagcgatc ttgtaggcat accgactagg 2100
95 atttccaggg cagaagaaaa gattacatct acacttggtt ccaatcaaga tgtagtagat 2160
97 aggatatata agcaagtggc ccttgagtct ccgttggcat tgttaaatac tgagaccaca 2220
99 attatgaacg caataacatc tctctcttat cagattaatg gagctgcaaa caacagtggg 2280
101 tgggggggcac ctatccatga cccagattat atagggggga taggcaaaga actcattgta 2340
103 gatgatgcta gtgatgtcac atcattctat ccctctgcat ttcaagaaca tctgaatttt 2400
105 atcccggcgc ctactacagg atcagggttg actcgaatac cctcatttga catgagtgc 2460
107 acccattact gctacacca taatgtaata ttgtctggat gcagagatca ctcacattca 2520
109 tatcagtatt tagcacttgg tgtgctccgg acatctgcaa cagggagggt attcttttct 2580
111 actctgcgtt ccatcaacct ggacgacacc caaaatcgga agtcttgca tgtgagtgc 2640
113 actcccctgg gttgtgatat gctgtgctcg aaagtcacgg agacagagga agaagattat 2700
115 aactcagctg tccctacgcg gatggtacat gggagggttag gggtcgacgg ccagtaccac 2760
117 gaaaaggacc tagatgtcac aacattattc ggggactggg tggccaacta cccaggagta 2820
119 gggggtggat cttttattga cagccgcgta tggttctcag tctacggagg gttaaaaccc 2880
121 aattcaccga gtgacactgt acaggaaggg aaatatgtga tatacaagcg atacaatgac 2940
123 acatgcccg atgagcaaga ctaccagatt cgaatggcca agtcttcgta taagcctgga 3000
125 cggtttggtg ggaacgcat acagcaggct atcttatcta tcaagggtgc aacatcctta 3060
127 gggaagacc cggtagtgac tgtaccgccc aacacagtca cactcatggg ggccgaaggc 3120
129 agaattctca cagtagggac atctcatttc ttgtatcaac gagggtcac atacttctct 3180
131 cccgcgttat tatatcctat gacagtcagc aacaaaacag ccactcttca tagtccttat 3240
133 acattcaatg ccttcactcg gccaggtagt atcccttgcc aggttcagc aagatgcccc 3300
135 aactcgtgtg ttactggagt ctatacagat ccatatcccc taatcttcta tagaaacc 3358

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138 <210> SEQ ID NO: 2

139 <211> LENGTH: 553

140 <212> TYPE: PRT

141 <213> ORGANISM: Newcastle disease virus

143 <400> SEQUENCE: 2

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145 Met Gly Ser Arg Pro Ser Thr Lys Asn Pro Ala Pro Met Met Leu Thr
146 1 5 10 15
149 Ile Arg Val Ala Leu Ala Leu Ser Cys Ile Cys Pro Ala Asn Ser Ile
150 20 25 30
153 Asp Gly Arg Pro Leu Ala Ala Ala Gly Ile Val Val Thr Gly Asp Lys
154 35 40 45
157 Ala Val Asn Ile Tyr Thr Ser Ser Gln Thr Gly Ser Ile Ile Val Lys
158 50 55 60
161 Leu Leu Pro Asn Leu Pro Lys Asp Lys Glu Ala Cys Ala Lys Ala Pro
162 65 70 75 80
165 Leu Asp Ala Tyr Asn Arg Thr Leu Thr Thr Leu Leu Thr Pro Leu Gly
166 85 90 95
169 Asp Ser Ile Arg Arg Ile Gln Glu Ser Val Thr Thr Ser Gly Gly Gly
170 100 105 110
173 Arg Gln Gly Arg Leu Ile Gly Ala Ile Ile Gly Gly Val Ala Leu Gly

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174          115          120          125
177 Val Ala Thr Ala Ala Gln Ile Thr Ala Ala Ala Ala Leu Ile Gln Ala
178          130          135          140
181 Lys Gln Asn Ala Ala Asn Ile Leu Arg Leu Lys Glu Ser Ile Ala Ala
182 145          150          155          160
185 Thr Asn Glu Ala Val His Glu Val Thr Asp Gly Leu Ser Gln Leu Ala
186          165          170          175
189 Val Ala Val Gly Lys Met Gln Gln Phe Val Asn Asp Gln Phe Asn Lys
190          180          185          190
193 Thr Ala Gln Glu Leu Asp Cys Ile Lys Ile Ala Gln Gln Val Gly Val
194          195          200          205
197 Glu Leu Asn Leu Tyr Leu Thr Glu Leu Thr Thr Val Phe Gly Pro Gln
198          210          215          220
201 Ile Thr Ser Pro Ala Leu Asn Lys Leu Thr Ile Gln Ala Leu Tyr Asn
202 225          230          235          240
205 Leu Ala Gly Gly Asn Met Asp Tyr Leu Leu Thr Lys Leu Gly Val Gly
206          245          250          255
209 Asn Asn Gln Leu Ser Ser Leu Ile Gly Ser Gly Leu Ile Thr Gly Asn
210          260          265          270
213 Pro Ile Leu Tyr Asp Ser Gln Thr Gln Leu Leu Gly Ile Gln Val Thr
214          275          280          285
217 Leu Pro Ser Val Gly Asn Leu Asn Asn Met Arg Ala Thr Tyr Leu Glu
218          290          295          300
221 Thr Leu Ser Val Ser Thr Thr Arg Gly Phe Ala Ser Ala Leu Val Pro
222 305          310          315          320
225 Lys Val Val Thr Gln Val Gly Ser Val Ile Glu Glu Leu Asp Thr Ser
226          325          330          335
229 Tyr Cys Ile Glu Thr Asp Leu Asp Leu Tyr Cys Thr Arg Ile Val Thr
230          340          345          350
233 Phe Pro Met Ser Pro Gly Ile Tyr Ser Cys Leu Ser Gly Asn Thr Ser
234          355          360          365
237 Ala Cys Met Tyr Ser Lys Thr Glu Gly Ala Leu Thr Thr Pro Tyr Met
238          370          375          380
241 Thr Ile Lys Gly Ser Val Ile Ala Asn Cys Lys Met Thr Thr Cys Arg
242 385          390          395          400
245 Cys Val Asn Pro Pro Gly Ile Ile Ser Gln Asn Tyr Gly Glu Ala Val
246          405          410          415
249 Ser Leu Ile Asp Lys Gln Ser Cys Asn Val Leu Ser Leu Gly Gly Ile
250          420          425          430
253 Thr Leu Arg Leu Ser Gly Glu Phe Asp Val Thr Tyr Gln Lys Asn Ile
254          435          440          445
257 Ser Ile Gln Asp Ser Gln Val Ile Ile Thr Gly Asn Leu Asp Ile Ser
258          450          455          460
261 Thr Glu Leu Gly Asn Val Asn Asn Ser Ile Ser Asn Ala Leu Asn Lys
262 465          470          475          480
265 Leu Glu Glu Ser Asn Arg Lys Leu Asp Lys Val Asn Val Lys Leu Thr
266          485          490          495
269 Ser Thr Ser Ala Leu Ile Thr Tyr Ile Val Leu Thr Ile Ile Ser Leu
270          500          505          510

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273 Val Phe Gly Ile Leu Ser Leu Ile Leu Ala Cys Tyr Leu Met Tyr Lys
274      515      520      525
277 Gln Lys Ala Gln Gln Lys Thr Leu Leu Trp Leu Gly Asn Asn Thr Leu
278      530      535      540
281 Asp Gln Met Arg Ala Thr Thr Lys Met
282 545      550
285 <210> SEQ ID NO: 3
286 <211> LENGTH: 21
287 <212> TYPE: DNA
288 <213> ORGANISM: Newcastle disease virus
290 <400> SEQUENCE: 3
291 tgaccacgag gttaccta c
294 <210> SEQ ID NO: 4
295 <211> LENGTH: 21
296 <212> TYPE: DNA
297 <213> ORGANISM: Newcastle disease virus
299 <400> SEQUENCE: 4
300 tccaagtagg tggcacgcat a
303 <210> SEQ ID NO: 5
304 <211> LENGTH: 22
305 <212> TYPE: DNA
306 <213> ORGANISM: Newcastle disease virus
308 <400> SEQUENCE: 5
309 aattgactac agtattcgga cc
312 <210> SEQ ID NO: 6
313 <211> LENGTH: 21
314 <212> TYPE: DNA
315 <213> ORGANISM: Newcastle disease virus
317 <400> SEQUENCE: 6
318 tggtgacatt cccaagctca g
321 <210> SEQ ID NO: 7
322 <211> LENGTH: 20
323 <212> TYPE: DNA
324 <213> ORGANISM: Newcastle disease virus
326 <400> SEQUENCE: 7
327 gctcagtcac cgctaactgc
330 <210> SEQ ID NO: 8
331 <211> LENGTH: 21
332 <212> TYPE: DNA
333 <213> ORGANISM: Newcastle disease virus
335 <400> SEQUENCE: 8
336 cggaatatca agcgccatgt a
339 <210> SEQ ID NO: 9
340 <211> LENGTH: 21
341 <212> TYPE: DNA
342 <213> ORGANISM: Newcastle disease virus
344 <400> SEQUENCE: 9
345 ttagaaaaaa cacgggtaga a
348 <210> SEQ ID NO: 10

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349 <211> LENGTH: 21
350 <212> TYPE: DNA
351 <213> ORGANISM: Newcastle disease virus
353 <400> SEQUENCE: 10
354 acaggacatt gaccactttg c 21
357 <210> SEQ ID NO: 11
358 <211> LENGTH: 22
359 <212> TYPE: DNA
360 <213> ORGANISM: Newcastle disease virus
362 <400> SEQUENCE: 11
363 caggtaactc taccttcagt cg 22
366 <210> SEQ ID NO: 12
367 <211> LENGTH: 23
368 <212> TYPE: DNA
369 <213> ORGANISM: Newcastle disease virus
371 <400> SEQUENCE: 12
372 caactcgatc agtaatgctt tga 23
375 <210> SEQ ID NO: 13
376 <211> LENGTH: 25
377 <212> TYPE: DNA
378 <213> ORGANISM: Newcastle disease virus
380 <400> SEQUENCE: 13
381 cctagatcag atgagagcca ctaca 25
384 <210> SEQ ID NO: 14
385 <211> LENGTH: 20
386 <212> TYPE: DNA
387 <213> ORGANISM: Newcastle disease virus
389 <400> SEQUENCE: 14
390 ctgctgcatc ttcccaactg 20
393 <210> SEQ ID NO: 15
394 <211> LENGTH: 23
395 <212> TYPE: DNA
396 <213> ORGANISM: Newcastle disease virus
398 <400> SEQUENCE: 15
399 gactcttgta tcctacggat aga 23
402 <210> SEQ ID NO: 16
403 <211> LENGTH: 23
404 <212> TYPE: DNA
405 <213> ORGANISM: Newcastle disease virus
407 <400> SEQUENCE: 16
408 gtacatacag gccgatgtat tgc 23
411 <210> SEQ ID NO: 17
412 <211> LENGTH: 23
413 <212> TYPE: DNA
414 <213> ORGANISM: Newcastle disease virus
416 <400> SEQUENCE: 17
417 aaggtctttt gttgcgcctt ttg 23
420 <210> SEQ ID NO: 18
421 <211> LENGTH: 22

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/800,256

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Input Set : A:\Zichria Zakay-Rones et al Seq. List.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:12 M:288 W: Application Number is Repeated, <150> PRIOR APPLICATION NUMBER